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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/630,513	07/29/2003		Adam L. Cohen	P-US004-B-SC	7897	
7	7590	07/29/2004		EXAMINER		
Dennis R Smalley				DIAMOND, ALAN D		
Microfabrica II 1103 W. Isabel				ART UNIT	PAPER NUMBER	
Burbank, CA 91506				1753		
				DATE MAILED: 07/29/2004	DATE MAILED: 07/29/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

			11				
	Application No.	Applicant(s)					
	10/630,513	COHEN ET AL.					
Office Action Summary	Examiner	Art Unit					
	Alan Diamond	1753					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence addre	SS				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this comm D (35 U.S.C. § 133).	unication.				
Status							
1) Responsive to communication(s) filed on	_•						
This action is FINAL . 2b) This action is non-final.							
3) Since this application is in condition for allowan	•		erits is				
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-29 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-29 are subject to restriction and/or expressions.							
Application Papers							
9) The specification is objected to by the Examiner							
10) ☐ The drawing(s) filed on is/are: a) ☐ acce							
Applicant may not request that any objection to the c		, ,					
Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Example 11.			` '				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	have been received. have been received in Application ty documents have been received (PCT Rule 17.2(a)).	on No d in this National Sta	ge				
attachment(s)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te	2)				
Patent and Trademark Office							

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Election/Restrictions

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1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-16, drawn to a microscale generator, classified in class 136, subclass 205.
- II. Claims 17-19, drawn to a microscale combustor, classified in class 431, subclass 350+.
- III. Claims 20-26, 28, and 29, drawn to a method of fabricating a microscale device, classified in class 205, subclass 80+.
- IV. Claim 27, drawn to a mask, classified in class 204, subclass 279.The inventions are distinct, each from the other because of the following reasons:
- 2. Inventions I and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are not disclosed as capable of use together and the channel wall comprising a thermoelectric material, and a plurality of conductive fins would provide for a different effect over that of the apparatus of group II.
- 3. Invention I is distinct from Inventions III and IV because a prior art reference drawn to a method of manufacturing a microscale device or a mask cannot necessarily be used to anticipate or render obvious a microscale generator. Likewise, a reference drawn to a microscale generator cannot necessarily be used to anticipate or render obvious a method of manufacturing a microscale device or a mask

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- 4. Inventions III and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the apparatus of group II can be made by a different process such as a non-electrochemical process.
- 5. Invention II is distinct from invention IV because a reference drawn to a mask cannot necessarily be used to anticipate or render obvious a microscale combustor. Likewise, a reference drawn to a microscale combustor cannot necessarily be used to anticipate or render obvious a mask.
- 6. Inventions III and IV are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case, the process can be practiced by another materially different apparatus such as a mask affixed to an electrode.
- 7. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 8. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

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- 9. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alan Diamond whose telephone number is 571-272-1338. The examiner can normally be reached on Monday through Friday, 5:30 a.m. to 2:00 p.m. ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen can be reached on 571-272-1342. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Alan Diamond Primary Examiner Art Unit 1753

Alan Diamond July 28, 2004